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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,399	01/25/2002	Mario Merlin	2-2817	1606

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EXAMINER

MITCHELL, JAMES M

ART UNIT

PAPER NUMBER

2827

DATE MAILED: 05/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/057,399	MERLIN ET AL.
	Examiner	Art Unit
	James Mitchell	2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 25 January 2002.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-10 and 13-25 is/are rejected.
- 7) Claim(s) 11 and 12 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. This office action is in response to the application filed January 25, 2002.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5, 7-9, 13-17 and 19-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Wislocky et al. (U.S 3,831,067).

4. Wislocky (Fig 1, 3) discloses a compression assembled semiconductor package comprising a semiconductor die inherent in a wafer (36) having a first major surface (top) and a second major surface (bottom), with a control electrode (metal on the top and bottom surface; not labeled) disposed on a first major surface (Column 3, Line 41) of said die, and a first and second electrode disposed on a first and second major surface (via metal formed on top and bottom surface; Column 1, Lines 66-68), a molded plastic insulation ring (33; Column 2, Lines 48-49) annularly disposed around said die, a control signal carrier (37 and 38; via terminal connected to the control lead) extending through said insulation ring from the exterior thereof and electrically connected to said control electrode (Column 5, Lines 7-9), a first pole (11) being surface to surface electrical contact with said first electrode (Column 4, Lines 3-7) with said first pole includes an annular rib (an annular rib portion defined by top slot 34, shown in Fig 1)

and an annular flange (29) which is at least partially embedded in said ring, said second pole includes an annular rib (an inherent annular rib portion via bottom slot , shown in Fig 3) and an annular flange (30) which is at least partially embedded in said ring, wherein the first pole includes a groove (13; via pedestal) to allow said control carrier to reach said control electrode, a connection tab (39) extending radially from way from the pole through the ring and forming an external terminal ("Gate" Column 3, Kines 50-54), the control carrier further comprises an L- shaped slender rod that is a small insert (Column 3, Line 48) with said terminal tube (37; inherently a carrier), as such the rod is a bond wire (via a wire that is bonded) and a tab, wherein a portion of the tab is a control lead (37) that extends through the molded plastic insulation ring, said tab having a head (portion in contact with electrode) in electrical contact with said control electrode.

Claim Rejections - 35 USC § 103

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 6, 10, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wislocky as applied to claims 1 and 13, and further view of Koichi (JP 55-050659).

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7. Wislocky does not explicitly disclose a thyristor or a pin in electrical contact one end of thereof with said control electrode and electrically connected by a conductive strip to a lead that extends through the body of said ring.

8. Koichi utilizes a thyristor held in place by a first (7) and second pole (8) surrounded by a ring (9) with a pin (15, "screw") attached to an electrode (4) and electrically connected by a conductive strip (14) to a lead (12) that extends through the body of the ring (9).

9. It would have been obvious to one of ordinary skill in the art to form the semiconductor of Wislocky as a thyristor in order to provide for an alternate device for which the housing could be used for as taught by Wislocky (Column 1, Lines 5-11).

10. Further, it would have been obvious to one of ordinary skill in the art to incorporate a pin that is electrically connected by a strip to a lead to be attached to the electrode, in order to avoid variations of agate signal in the thyristor as taught by Koichi.

Allowable Subject Matter

11. Claims 11 and 12 are objected to as being dependent upon a rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Mitchell whose telephone number is (703) 305-0244. The examiner can normally be reached on M-F 10:30-8:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3230 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.


jmm
May 3, 2002



DAVID E. GRAYBILL
PRIMARY EXAMINER